June 2008



#### DEPARTMENT OF EDUCATION

2007–2008 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State standards known as *Learning Results*, adopted by the Maine Legislature in 1997. These *Learning Results* established goals for what all students should know and be able to do at certain times in their school careers and are the basis for Grade Level/Span Expectations, which describe the assessment standards for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind* Act.

The 2007-2008 MEA summary reports contain the results of student achievement in reading and mathematics at all grades, science and technology at grades 4 and 8, and writing at grade 5 based on achievement standards set in 2006 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. The grade 5 writing reports provide information on a student's ability to respond to a prompt measuring narrative writing. More information about the design of the MEA is available at www.maine. gov/education/mea/index.htm.

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the Maine Educational Assessment.

Sincerely,

Susan A. Gendron

Commissioner of Education

Susan A. Kendron



### School Report Grade 8

Test Date:	March 2008
Code:	11271335

SAU: Pembroke School Department

School: Pembroke Elementary School

#### **Contents of the Report**

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

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### **SUMMARY OF SCORES**

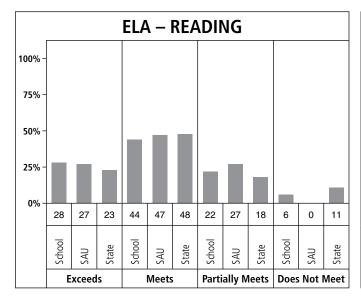
Test Date: March 2008

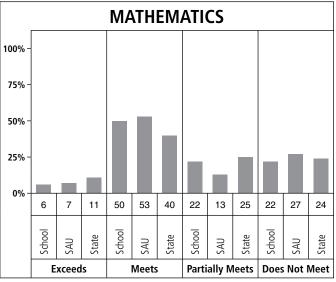
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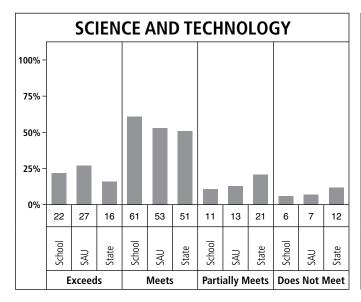
SAU: Pembroke School Department School: Pembroke Elementary School

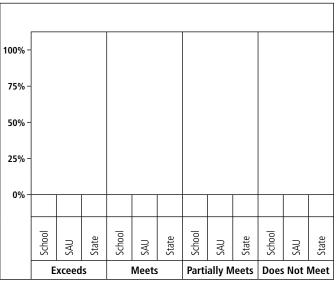
# Summary of School, SAU, and State Scores

Year	Avera	age Scaled S	Score
ieai	School	SAU	State
<b>ELA – Reading</b> 2005–2006 2006–2007 <b>2007–2008</b> Cum. Avg.*	837 849 <b>851</b> 847	835 848 <b>852</b> 847	845 847 <b>849</b> 847
Mathematics 2005–2006 2006–2007 <b>2007–2008</b> Cum. Avg.*	835 843 <b>842</b> 840	834 840 <b>843</b> 840	840 842 <b>841</b> 841
Science & Technology 2005–2006 2006–2007 <b>2007–2008</b> Cum. Avg.*	841 855 <b>850</b> 849	841 854 <b>850</b> 849	846 847 <b>847</b> 847









<sup>\*</sup>Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.



### **SUMMARY OF STUDENT PARTICIPATION**

Test Date: March 2008 8

Grade:

SAU: **Pembroke School Department** School: **Pembroke Elementary School** 

		Er	rol	lme	nt¹								C	ON.	TE	NT	AR	ΕA	PA	RT	ICI	PA	TIO	N <sup>2</sup>				
CATEGORY OF	C	during	g test	ting v	vindo	w			ELA-F	eadin	g				Mathe	matic	s			Scien	ce and	l Tech	nology					
PARTICIPATION	Sc	hool	S	AU	St	ate	Sc	hool	S	AU	St	ate	Scl	nool	S	AU	St	ate	Scl	nool	s	AU	St	ate	Sc	hool	SAU	State
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n %	n %
Total number of students	19	100	16	100	15274	100	19	100	16	100	15102	99	19	100	16	100	15097	99	19	100	16	100	15080	99				
Ethnicity African American/Black	0	0	0	0	368	2	0	0	0	0	356	97	0	0	0	0	360	98	0	0	0	0	356	97				
American Indian or Native Alaskan	1	5	0	0	120	1	1	100	0	0	117	98	1	100	0	0	117	98	1	100	0	0	117	98				
Asian or Pacific Islander	0	0	0	0	186	1	0	0	0	0	181	97	0	0	0	0	182	98	0	0	0	0	182	98				
Hispanic	0	0	0	0	139	1	0	0	0	0	136	98	0	0	0	0	136	98	0	0	0	0	136	98				
Caucasian/White	18	95	16	100	14461	95	18	100	16	100	14312	99	18	100	16	100	14302	99	18	100	16	100	14289	99				
Not Reported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Identified disability	4	21	3	19	2508	16	4	100	3	100	2446	98	4	100	3	100	2441	98	4	100	3	100	2431	98				
Current LEP	0	0	0	0	327	2	0	0	0	0	316	97	0	0	0	0	322	99	0	0	0	0	322	99				
Economically disadvantaged	9	47	7	44	5420	35	9	100	7	100	5329	99	9	100	7	100	5324	99	9	100	7	100	5313	98				
Migrant	0	0	0	0	7	0	0	0	0	0	7	100	0	0	0	0	7	100	0	0	0	0	7	100				

MODE OF		ELA-Readi	ng		Mathematic	s	Scien	ce and Tecl	nology			
	School	SAU	State	School	SAU	State	School	SAU	State	School	SAU	State
PARTICIPATION <sup>3</sup>	n %	n %	n %	n %	n %	n %	n %	n %	n %	n %	n %	n %
Participation without accommodations	16 84	14 88	12703 83	16 84	14 88	12694 83	16 84	14 88	12710 83			
Identified disability (PET/IEP)	1 6	1 7	437 3	1 6	1 7	421 3	1 6	1 7	445 4			
LEP	0 0	0 0	172 1	0 0	0 0	172 1	0 0	0 0	173 1			
504 plan	0 0	0 0	229 2	0 0	0 0	231 2	0 0	0 0	230 2			
Participation with accommodations	2 11	1 6	2221 15	2 11	1 6	2227 15	2 11	1 6	2197 14			
Identified disability (PET/IEP)	2 100	1 100	1832 82	2 100	1 100	1844 83	2 100	1 100	1813 83			
LEP	0 0	0 0	136 6	0 0	0 0	143 6	0 0	0 0	142 6			
504 plan	0 0	0 0	68 3	0 0	0 0	66 3	0 0	0 0	66 3			
Other	0 0	0 0	213 10	0 0	0 0	202 9	0 0	0 0	204 9			
Participation through alternate assessment (PAAP)	1 5	1 6	177 1	1 5	1 6	176 1	1 5	1 6	173 1			
Identified disability (PET/IEP)	1 100	1 100	177 100	1 100	1 100	176 100	1 100	1 100	173 100			
LEP	0 0	0 0	7 4	0 0	0 0	7 4	0 0	0 0	7 4			
504 plan	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0			
Approved non-participation in reading – 1st year LEP	0 0	0 0	1 0									
Approved non-participation – special consideration	0 0	0 0	32 0	0 0	0 0	34 0	0 0	0 0	34 0			
Non-participation – other	0 0	0 0	140 1	0 0	0 0	143 1	0 0	0 0	160 1			

<sup>1</sup> Percents are the percentage of students enrolled in each participation category.

<sup>2</sup> Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.

**<sup>3</sup>** Percents are the percentage of students in each content area by mode.



### **ELA-READING RESULTS**

Test Date: March 2008

Grade:

SAU: Pembroke School Department School: Pembroke Elementary School

#### STUDENTS AT EACH ACHIEVEMENT LEVEL

ACHIEVEMENT LEVEL DEFINITIONS		Sch	nool	S	ΑU	Sta	ite
The quality of a student's work at each achievement level reflects progress in attaining Maine's Level Expectations in English language arts – reading.	's Grade	N	%	N	%	N	%
Exceeds the Standards – The student's work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (scaled score 861–880)	2005-2006	0	0	0	0	2695	17
	2006-2007	1	10	1	11	2407	16
	<b>2007-2008</b>	<b>5</b>	<b>28</b>	<b>4</b>	<b>27</b>	<b>3428</b>	<b>23</b>
	Cum. Total*	6	16	5	16	8530	18
Meets the Standards – The student's work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (scaled score 841–860)	2005-2006	4	40	3	38	6830	42
	2006-2007	8	80	7	78	7494	49
	<b>2007-2008</b>	<b>8</b>	<b>44</b>	<b>7</b>	<b>47</b>	<b>7179</b>	<b>48</b>
	Cum. Total*	20	53	17	53	21503	46
Partially Meets the Standards – The student's work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student's ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (scaled score 829–840)	2005-2006	2	20	1	13	3741	23
	2006-2007	0	0	0	0	3628	24
	<b>2007-2008</b>	<b>4</b>	<b>22</b>	<b>4</b>	<b>27</b>	<b>2706</b>	<b>18</b>
	Cum. Total*	6	16	5	16	10075	22
Does Not Meet the Standards – The student's work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student's responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (scaled score 800–828)	2005-2006	4	40	4	50	3003	18
	2006-2007	1	10	1	11	1810	12
	<b>2007-2008</b>	<b>1</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>1611</b>	<b>11</b>
	Cum. Total*	6	16	5	16	6424	14

		nber	A	verage Poir	nts Attaine	d (Number	and Percer	nt)
Learning Results Content Standard Cluster	-	oints sible	Sch	ool	SA	ΑU	Sta	ite
	N	%	N	%	N	%	N	%
Total Reading Cluster	56	100	37.7	67.3	38.4	68.6	36.9	65.9
Literary Text	28	50	18.6	66.4	18.8	67.1	18.3	65.4
Informational Text	28	50	19.2	68.6	19.6	70.0	18.6	66.4

The Maine Learning Results reading cluster includes Content Standards A (Process of Reading), B (Literature and Culture), and D (Informational Texts). The MEA assesses students' reading skills based on questions related to two types of reading passages: literary and informational. Passages include both long and short texts, selected from developmentally appropriate works. Items on the MEA measure Grade Level Expectations, based on Maine's 1997 Learning Results, which can be found at http://www.maine.gov/education/lsalt/gles.htm.



# **ELA-READING RESULTS**

(CONTINUED)

Test Date: March 2008

Grade: 8

SAU: Pembroke School Department School: Pembroke Elementary School

<u> </u>						CON																
DEDORTING					Sch	nool							SA	AU .			<u> </u>	1	St	ate		
REPORTING CATEGORIES	Tested		E		М		Р	ı	D	Mean Scaled	Tested	E	М	Р	D	Mean Scaled	Tested	E	М	Р	D	Mear Scale
	N	N	%	N	%	N	%	N	%	Score	N	%	%	%	%	Score	N	%	%	%	%	Score
All Students	18	5	28	8	44	4	22	1	6	851	15	27	47	27	0	852	14924	23	48	18	11	849
Ethnicity African American/Black American Indian or Native Alaskan Asian or Pacific Islander Hispanic Caucasian/White Not Reported	0 1 0 0 17	5	29	8	47	4	24	0	0	853	0 0 0 0 15	27	47	27	0	852	348 117 179 131 14149 0	11 9 32 18 23	38 43 39 38 49	22 29 18 27 18	29 19 11 17 10	840 842 852 846 850
<b>Identified disability</b> Yes No	3 15	5	33	8	53	2	13	0	0	855	2 13	31	54	15	0	856	2269 12655	3 27	24 52	32 16	42 5	833 852
<b>Current LEP</b> Yes No	0 18	5	28	8	44	4	22	1	6	851	0 15	27	47	27	0	852	308 14616	8 23	30 48	27 18	34 10	837 850
Economically disadvantaged Yes No	8 10	1 4	13 40	5 3	63 30	1 3	13 30	1 0	13 0	848 854	6 9	17 33	67 33	17 33	0	851 853	5222 9702	12 29	44 50	25 14	19 7	843 853
<b>Migrant</b> Yes No	0 18	5	28	8	44	4	22	1	6	851	0 15	27	47	27	0	852	7 14917	0 23	86 48	0 18	14 11	850 849
Gender Female Male Not Reported	11 7 0	5 0	45 0	4 4	36 57	2 2	18 29	0	0 14	857 842	10 5 0	40 0	40 60	20 40	0 0	857 844	7198 7726 0	30 17	48 49	15 21	7 14	853 847
Title 1A targeted program Yes No	1 17	5	29	8	47	3	18	1	6	852	1 14	29	50	21	0	854	807 14117	9 24	41 49	32 17	18 10	842 850
<b>Gifted/talented program</b> Yes No	0 18	5	28	8	44	4	22	1	6	851	0 15	27	47	27	0	852	592 14332	71 21	28 49	1 19	0 11	867 849

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

**NOTE:** Some achievement level results have been left blank because fewer than five (5) students were tested.

I = Number



# **ELA-READING RESULTS**

(QUESTIONNAIRE ITEMS)

Test Date: March 2008

Grade: 8

SAU: Pembroke School Department School: Pembroke Elementary School

₹																						
					Sch	ool							SA	U_					Sta	te		
QUESTIONNAIRE ITEMS	Students in Each Category		E	r	М		P		D	Mean Scaled Score	Students in Each Category	E	М	P	D	Mean Scaled Score	Students in Each Category	E	М	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%	30010	%	%	%	%	%	30010	%	%	%	%	%	1
How much homework do you do on school nights? A. none B. less than one hour C. one to two hours D. more than two hours	6 59 35 0	0 3 2	0 30 33	1 6 1	100 60 17	0 1 3	0 10 50	0 0 0	0 0 0	852 854 851	7 53 40 0	0 25 33	100 63 17	0 13 50	0 0 0	852 853 851	9 46 41 5	10 20 28 28	39 50 49 44	24 20 15 15	26 11 7 12	841 849 852 850
How well do the questions that you have just been given on this MEA test match what you have learned in school about reading?  A. The questions on the test match what I have learned in reading class.  B. They match some of what I have learned.  C. They match just a little of what I have learned.  D. There is no match.	35 53 12 0	2 1 2	33 11 100	3 5 0	50 56 0	1 3 0	17 33 0	0 0 0	0 0 0	858 845 870	40 47 13 0	33 0 100	50 57 0	17 43 0	0 0 0	858 843 870	33 53 11 3	31 21 14 6	48 51 41 34	14 19 25 26	7 9 20 35	853 849 844 836
Which of the following best describes how you rate yourself as a student in reading?  A. very good B. good C. fair D. poor	38 38 19 6	2 2 0 0	33 33 0 0	4 2 2 0	67 33 67 0	0 2 1 1	0 33 33 100	0 0 0	0 0 0	859 851 843 830	36 43 14 7	20 33 0 0	80 33 50 0	0 33 50 100	0 0 0 0	858 851 842 830	31 49 18 2	42 19 5 4	44 54 42 29	8 19 31 32	6 9 22 34	857 849 840 835
How difficult was the reading part of this test?  A. harder than my regular schoolwork  B. about the same as my regular schoolwork  C. easier than my regular schoolwork	6 71 24	0 4 1	0 33 25	1 6 1	100 50 25	0 2 2	0 17 50	0 0 0	0 0 0	846 855 849	7 67 27	0 30 25	100 50 25	0 20 50	0 0 0	846 854 849	15 65 19	16 23 30	44 49 49	22 18 14	18 9 8	845 850 852
How difficult were the reading passages on this test?  A. Most of the passages were more difficult than what I normally read.  B. Most of the passages were about the same as what I normally read.  C. Most of the passages were easier than what I normally read.	6 65 29	0 3 2	0 27 40	1 5 2	100 45 40	0 3 1	0 27 20	0 0 0	0 0 0	846 851 858	0 67 33	20 40	50 40	30 20	0 0	849 858	9 53 38	8 17 36	33 51 48	28 21 11	31 11 5	838 848 855
How hard did you try on the reading part of this test?  A. I tried harder on this test than I do on my regular schoolwork.  B. I tried about the same as I do on my regular schoolwork.  C. I did not try as hard on this test as I do on my regular schoolwork.	47 53 0	4	50 11	3 5	38 56	1 3	13 33	0	0 0	857 849	47 53 0	57 0	29 63	14 38	0 0	859 847	43 51 6	23 25 9	48 49 43	19 17 24	10 9 23	849 851 842
How much time do you spend reading at home each day? A. more than one hour B. 20 minutes to an hour C. less than 20 minutes D. I rarely read at home.	24 24 6 47	2 1 1 1	50 25 100 13	2 2 0 4	50 50 0 50	0 1 0 3	0 25 0 38	0 0 0 0	0 0 0 0	862 853 864 847	27 27 0 47	50 25 14	50 50 43	0 25 43	0 0	862 853 847	18 41 13 28	31 28 20 12	47 49 49 47	13 15 18 26	9 7 12 16	852 852 848 844
How do you feel about the following statement? "My knowledge of reading will be useful to me as an adult." A. strongly agree B. agree C. disagree D. strongly disagree	71 24 6 0	5 0 0	42 0 0	4 3 1	33 75 100	3 1 0	25 25 0	0 0 0	0 0 0	855 846 854	73 20 7 0	36 0 0	36 67 100	27 33 0	0 0 0	854 846 854	43 48 6 2	31 18 11 6	48 50 43 36	14 20 24 32	7 12 21 26	853 848 843 839
Optional school/SAU question A. B. C. D.	0 0 0										0 0 0 0											

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

N - Numbe



### **MATHEMATICS RESULTS**

Test Date: March 2008

Grade: 8

SAU: Pembroke School Department School: Pembroke Elementary School

#### STUDENTS AT EACH ACHIEVEMENT LEVEL

ACHIEVEMENT LEVEL DEFINITIONS		Sch	ool	SA	<b>\U</b>	Sta	ate
The quality of a student's work at each achievement level reflects progress in attaining Maine's Level Expectations in mathematics.	s Grade	N	%	N	%	N	%
Exceeds the Standards – The student's work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student's responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (scaled score 861–880)	2005-2006	0	0	0	0	1714	11
	2006-2007	1	10	0	0	1952	13
	<b>2007-2008</b>	<b>1</b>	<b>6</b>	<b>1</b>	<b>7</b>	<b>1657</b>	<b>11</b>
	Cum. Total*	2	5	1	3	5323	11
Meets the Standards – The student's work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student's responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student's work may contain minor errors. (scaled score 841–860)	2005-2006	3	30	3	38	5533	34
	2006-2007	5	50	5	56	5870	38
	<b>2007-2008</b>	<b>9</b>	<b>50</b>	<b>8</b>	<b>53</b>	<b>5956</b>	<b>40</b>
	Cum. Total*	17	45	16	50	17359	37
Partially Meets the Standards – The student's work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student's responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (scaled score 829–840)	2005-2006	4	40	2	25	4764	29
	2006-2007	3	30	3	33	3982	26
	<b>2007-2008</b>	<b>4</b>	<b>22</b>	<b>2</b>	<b>13</b>	<b>3729</b>	<b>25</b>
	Cum. Total*	11	29	7	22	12475	27
Does Not Meet the Standards – The student's work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student's responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (scaled score 800–828)	2005-2006	3	30	3	38	4251	26
	2006-2007	1	10	1	11	3534	23
	<b>2007-2008</b>	<b>4</b>	<b>22</b>	<b>4</b>	<b>27</b>	<b>3579</b>	<b>24</b>
	Cum. Total*	8	21	8	25	11364	24

	1	nber	Avera	ge Point	s Attaine	d (Numbe	r and Pe	rcent)
Learning Results Content Standard Clusters		oints sible	Sch	ool	SA	<b>NU</b>	St	ate
	N	%	N	%	N	%	N	%
Cluster 1: Numbers and Operations	16	29	7.5	46.9	7.3	45.6	8.4	52.5
Cluster 2: Shape and Size	14	25	5.2	37.1	5.3	37.9	5.9	42.1
Cluster 3: Mathematical Decision Making	8	14	4.8	60.0	5.0	62.5	4.6	57.5
Cluster 4: Patterns	18	32	10.2	56.7	10.7	59.4	8.9	49.4

#### **Cluster 1: Numbers and Operations**

- A. Numbers and Number Sense
- B. Computation
- I. Discrete Mathematics (grades 3 and 4 only)

#### Cluster 2: Shape and Size

- E. Geometry
- F. Measurement

#### **Cluster 3: Mathematical Decision Making**

- C. Data Analysis and Statistics
- D. Probability

#### **Cluster 4: Patterns**

- G. Patterns, Relations, and Functions
- H. Algebra Concepts
- K. Mathematical Communication

Each content standard in the clusters above is defined in Maine's 1997 *Learning Results*, which are the basis for Grade Level Expectations. Each item on the MEA measures a grade level expectation, which can be found at http://www.maine.gov/education/lsalt/gles.htm.

<sup>\*</sup>Percentages are calculated by dividing the cumulative total of the number of students in the achievement level by the cumulative total of the number of students tested.



# **MATHEMATICS RESULTS**

(CONTINUED)

Test Date: March 2008

Grade: 8

SAU: Pembroke School Department School: Pembroke Elementary School

						nool							SA	AU					Sta	ate		
REPORTING CATEGORIES	Tested		E		M		P		D	Mean Scaled	Tested	E	M	Р	D	Mean Scaled	Tested	E	М	Р	D	Mean Scaled
	N	N	%	N	%	N	%	N	%	Score	N	%	%	%	%	Score	N	%	%	%	%	Score
All Students	18	1	6	9	50	4	22	4	22	842	15	7	53	13	27	843	14921	11	40	25	24	841
Ethnicity African American/Black American Indian or Native Alaskan Asian or Pacific Islander Hispanic Caucasian/White Not Reported	0 1 0 0 17 0	1	6	9	53	3	18	4	24	842	0 0 0 0 15	7	53	13	27	843	352 117 181 131 14140 0	2 5 24 7 11	23 22 42 34 41	23 33 20 26 25	52 39 14 33 23	828 832 848 836 841
Identified disability Yes No	3 15	1	7	9	60	3	20	2	13	845	2 13	8	62	15	15	845	2265 12656	1 13	14 45	22 26	62 17	824 844
Current LEP Yes No	0 18	1	6	9	50	4	22	4	22	842	0 15	7	53	13	27	843	315 14606	5 11	24 40	20 25	51 23	828 841
Economically disadvantaged Yes No	8 10	1 0	13 0	3 6	38 60	3	38 10	1 3	13 30	843 841	6 9	17 0	33 67	33 0	17 33	844 841	5217 9704	5 15	30 45	29 23	37 17	834 845
Migrant Yes No	0	1	6	9	50	4	22	4	22	842	0 15	7	53	13	27	843	7 14914	0 11	43 40	43 25	14 24	838 841
Gender Female Male Not Reported	11 7 0	1 0	9	6 3	55 43	3	27 14	1 3	9 43	845 836	10 5 0	10 0	60 40	20 0	10 60	846 835	7199 7722 0	11 11	40 40	26 24	23 25	841 841
Title 1A targeted program Yes No	1 17	1	6	9	53	4	24	3	18	843	1 14	7	57	14	21	844	806 14115	3 12	20 41	30 25	47 23	831 842
Gifted/talented program Yes No	0 18	1	6	9	50	4	22	4	22	842	0 15	7	53	13	27	843	592 14329	58 9	39 40	2 26	1 25	864 840

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

**NOTE:** Some achievement level results have been left blank because fewer than five (5) students were tested.

I = Number



# **MATHEMATICS RESULTS**

(QUESTIONNAIRE ITEMS)

Test Date: March 2008

Grade: 8

SAU: Pembroke School Department School: Pembroke Elementary School

QUESTIONNAIRE					<u> </u>						l .						т —							
QUESTIONNAIRE		School											SA	U			State							
ITEMS	Students in Each Category		E		М		P		D		Students in Each Category	E	М	Р	D	Mean Scaled Score	Students in Each Category	E	М	P	D	Mean Scaled		
	%	N	%	N	%	N	%	N	%	Score	%	%	%	%	%	Jour	%	%	%	%	D % 41 25 19 24 18 22 33 54 11 20 38 57 32 21 13 25 21 38 29 27 21 24 21 23 27 33 18 28 36 49	Jule		
How much homework do you do on school nights? A. none 3. less than one hour C. one to two hours D. more than two hours	6 59 35 0	0 1 0	0 10 0	0 5 4	0 50 67	0 2 1	0 20 17	1 2 1	100 20 17	828 844 842	7 53 40 0	0 13 0	0 50 67	0 13 17	100 25 17	828 845 842	9 46 41 5	5 10 14 14	30 40 42 38	23 26 25 23	25 19	833 840 843 842		
How well do the questions that you have just been given on this ME est match what you have learned in school about mathematics?  A. The questions on the test match what I have learned in mathematics	<b>A</b> 29	1	20	3	60	0	0	1	20	848	27	25	50	0	25	849	30	17	43	22	18	845		
class.  3. They match some of what I have learned.  C. They match just a little of what I have learned.  D. There is no match.	59 12 0	0	0 0	6 0	60 0	2 1	20 50	2	20 50	842 828	67 7 0	0 0	60 0	20 0	20 100	842 820	50 17 4	10 6 3	42 32 18	26 29 25	33	841 836 828		
Which of the following best describes how you rate yourself as a student in mathematics?  A. very good  B. good  C. fair  D. poor	24 41 35 0	0 1 0	0 14 0	4 3 2	100 43 33	0 1 2	0 14 33	0 2 2	0 29 33	852 843 836	20 47 33 0	0 14 0	100 43 40	0 14 20	0 29 40	853 843 836	26 45 23 5	29 7 1	46 46 26 14	14 27 34 29	20 38	851 841 833 827		
A. harder than my regular schoolwork B. about the same as my regular schoolwork C. easier than my regular schoolwork	41 59 0	0 1	0 10	4 5	57 50	1 2	14 20	2 2	29 20	840 844	40 60 0	0 11	67 44	0 22	33 22	841 844	34 52 13	4 10 33	35 43 40	28 26 14	32 21	836 842 852		
How hard did you try on the mathematics part of this test?  A. I tried harder on this test than I do on my regular schoolwork.  B. I tried about the same as I do on my regular schoolwork.  C. I did not try as hard on this test as I do on my regular schoolwork.	35 65 0	1 0	17 0	3 6	50 55	0 3	0 27	2 2	33 18	842 843	33 67 0	20 0	40 60	0 20	40 20	841 843	44 50 6	10 13 9	40 42 27	26 24 27	21	840 843 835		
How often do you use laptops in mathematics class? A. almost every day B. two or three days a week C. two or three times each month D. never or almost never	0 19 31 50	0 0 1	0 0 13	3 3 3	100 60 38	0 1 1	0 20 13	0 1 3	0 20 38	847 839 843	0 14 36 50	0 0 14	100 60 43	0 20 0	0 20 43	847 839 844	9 16 28 48	6 8 12 13	38 38 41 40	27 27 27 23	27 21	837 839 843 842		
How often do you use calculators in mathematics class? A. almost every day B. two or three times a week C. two or three times each month D. never or almost never	65 29 6 0	0 1 0	0 20 0	7 1 1	64 20 100	2 1 0	18 20 0	2 2 0	18 40 0	843 839 858	67 27 7 0	0 25 0	70 0 100	10 25 0	20 50 0	843 837 858	38 33 18 11	14 10 10 7	42 41 36 34	23 26 27 26	23 27	843 841 840 836		
How do you feel about the following statement?  "My knowledge of mathematics will be useful to me as an adult."  A. strongly agree  B. agree  C. disagree  D. strongly disagree	47 41 12 0	1 0 0	13 0 0	7 2 0	88 29 0	0 2 1	0 29 50	0 3 1	0 43 50	851 836 829	47 40 13 0	14 0 0	86 33 0	0 17 50	0 50 50	852 836 829	54 38 6 2	14 8 6 3	44 36 31 23	23 27 28 25	28 36	844 838 835 831		
Optional school/SAU question A. B. C. C. D.	0 0 0										0 0 0 0													

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

N - Numbe



### **SCIENCE AND TECHNOLOGY RESULTS**

Test Date: March 2008

Grade: 8

SAU: Pembroke School Department School: Pembroke Elementary School

#### STUDENTS AT EACH ACHIEVEMENT LEVEL

ACHIEVEMENT LEVEL DEFINITIONS	Sch	iool	SA	\U	Sta	ıte	
The quality of a student's work at each achievement level reflects progress in attaining Maine Span Expectations in science and technology.	's Grade	N	%	N	%	N	%
Exceeds the Standards – The student's work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student's responses demonstrate the ability to synthesize information, analyze and solve difficult problems using the processes of scientific inquiry, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (scaled score 861–880)	2005-2006	0	0	0	0	1879	12
	2006-2007	3	30	2	22	2192	14
	<b>2007-2008</b>	<b>4</b>	<b>22</b>	<b>4</b>	<b>27</b>	<b>2371</b>	<b>16</b>
	Cum. Total*	7	18	6	19	6442	14
Meets the Standards – The student's work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student's responses demonstrate the ability to analyze and solve routine problems using the processes of scientific inquiry and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (scaled score 841–860)	2005-2006	5	50	3	38	8604	53
	2006-2007	6	60	6	67	7916	52
	<b>2007-2008</b>	<b>11</b>	<b>61</b>	<b>8</b>	<b>53</b>	<b>7630</b>	<b>51</b>
	Cum. Total*	22	58	17	53	24150	52
Partially Meets the Standards – The student's work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student's responses demonstrate some ability to analyze and solve problems using scientific inquiry but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (scaled score 831–840)	2005-2006	4	40	4	50	3618	22
	2006-2007	1	10	1	11	3340	22
	<b>2007-2008</b>	<b>2</b>	<b>11</b>	<b>2</b>	<b>13</b>	<b>3175</b>	<b>21</b>
	Cum. Total*	7	18	7	22	10133	22
<b>Does Not Meet the Standards</b> – The student's work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student's responses demonstrate minimal ability to solve problems and use the skills of scientific inquiry. There are many inaccuracies and explanations are illogical, incomplete, or missing. (scaled score 800–830)	2005-2006	1	10	1	13	2174	13
	2006-2007	0	0	0	0	1865	12
	<b>2007-2008</b>	1	<b>6</b>	1	<b>7</b>	<b>1731</b>	<b>12</b>
	Cum. Total*	2	5	2	6	5770	12

		nber	Average Points Attained (Number and Percent)												
Learning Results Content Standard Clusters	1	oints sible	Sch	iool	SA	'N	State								
	N	%	N	%	N	%	N	%							
Cluster 1: Life Sciences	14	25	8.4	60.0	8.5	60.7	8.1	57.9							
Cluster 2: Physical Sciences	14	25	8.5	60.7	8.6	61.4	7.3	52.1							
Cluster 3: Earth and Space Sciences	14	25	8.4	60.0	8.3	59.3	7.7	55.0							
Cluster 4: Nature and Implications of Science	14	25	8.5	60.7	8.2	58.6	8.5	60.7							

#### Cluster 1: Life Sciences

A. Classifying Life Forms

B. Ecology

C. Cells

#### **Cluster 2: Physical Sciences**

E. Structure of Matter

H. Energy

I. Motion

#### **Cluster 3: Earth and Space Sciences**

D. Continuity and Change

F. The Earth

G. The Universe

#### Cluster 4: Nature and Implications of Science

J. Inquiry and Problem Solving

K. Scientific Reasoning

L. Communication

M. Implications of Science & Technology

Each content standard in the clusters shown is defined in Maine's 1997 *Learning Results*, which are the basis for science and technology Grade Span Expectations. Each item on the MEA measures a grade span expectation, which can be found at http://www.maine.gov/education/lsalt/gles. htm.



# **SCIENCE AND TECHNOLOGY RESULTS**

(CONTINUED)

Test Date: March 2008

Grade: 8

SAU: Pembroke School Department School: Pembroke Elementary School

·		School											S/	AU		State							
REPORTING				T .	<b>J</b> CI								; Jr	10	i	State							
CATEGORIES	Tested		E		M		P		D	Mean Scaled Score	Tested	E	М	Р	D	Mean Scaled Score	Tested	E	М	Р	D	Mean Scaled Score	
	N	N	%	N	%	N	%	N	%	Jene	N	%	%	%	%	Jene	N	%	%	%	%	Jeore	
All Students	18	4	22	11	61	2	11	1	6	850	15	27	53	13	7	850	14907	16	51	21	12	847	
Ethnicity African American/Black American Indian or Native Alaskan Asian or Pacific Islander Hispanic Caucasian/White Not Reported	0 1 0 0 17	4	24	10	59	2	12	1	6	851	0 0 0 0 15 0	27	53	13	7	850	349 117 181 131 14129 0	4 8 20 5 16	35 40 50 50 52	26 28 15 22 21	34 24 15 23 11	837 840 849 842 848	
i <b>dentified disability</b> Yes No	3 15	4	27	9	60	2	13	0	0	853	2 13	31	54	15	0	852	2258 12649	3 18	29 55	31 20	37 7	836 850	
<b>Current LEP</b> Yes No	0 18	4	22	11	61	2	11	1	6	850	0 15	27	53	13	7	850	315 14592	4 16	29 52	25 21	42 11	834 848	
<b>Economically disadvantaged</b> Yes No	8 10	2 2	25 20	5 6	63 60	1 1	13 10	0	0 10	850 850	6 9	33 22	50 56	17 11	0 11	850 849	5206 9701	8 20	45 55	28 18	20 7	842 850	
<b>Migrant</b> Yes No	0	4	22	11	61	2	11	1	6	850	0 15	27	53	13	7	850	7 14900	29 16	57 51	14 21	0 12	852 847	
<b>Gender</b> Female Male Not Reported	11 7 0	3 1	27 14	7 4	64 57	1 1	9 14	0 1	0 14	853 846	10 5 0	30 20	60 40	10 20	0 20	852 844	7196 7711 0	14 18	52 51	23 20	12 12	847 848	
Title 1A targeted program Yes No	1 17	4	24	10	59	2	12	1	6	851	1 14	29	50	14	7	850	804 14103	6 16	38 52	34 21	22 11	841 848	
<b>Gifted/talented program</b> Yes No	0 18	4	22	11	61	2	11	1	6	850	0 15	27	53	13	7	850	592 14315	63 14	35 52	1 22	0 12	865 847	

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**NOTE:** Some achievement level results have been left blank because fewer than five (5) students were tested.

I = Number



# **SCIENCE AND TECHNOLOGY RESULTS**

(QUESTIONNAIRE ITEMS)

Test Date: March 2008

Grade: 8

SAU: Pembroke School Department School: Pembroke Elementary School

*	(QOESTIONNAME TEMS)											SAU													
	School										State														
QUESTIONNAIRE ITEMS		Students in Each Category			М		P		)	Mean Scaled Score	Students in Each Category	E	М	P	D	Mean Scaled Score	Students in Each Category	E	М	M P D	D	Mean Scaled Score			
	%	N	%	N	%	N	%	N	%	Score	%	%	%	%	%	Score	%	%	%	%	%	Score			
How much homework do you do on school nights? A. none B. less than one hour C. one to two hours D. more than two hours	6 59 35 0	0 2 2	0 20 33	1 6 3	100 60 50	0 1 1	0 10 17	0 1 0	0 10 0	848 851 851	7 53 40 0	0 25 33	100 50 50	0 13 17	0 13 0	848 849 851	9 46 41 5	10 14 19 19	40 52 53 47	26 22 19 21	23 12 9 14	842 847 849 848			
How well do the questions that you have just been given on this MEA																									
test match what you have learned in school about science?  A. The questions on the test match what I have learned in science class.  B. They match some of what I have learned.  C. They match just a little of what I have learned.  D. There is no match.	47 41 12 0	2 1 1	25 14 50	5 5 0	63 71 0	1 1 0	13 14 0	0 0 1	0 0 50	854 849 845	40 47 13 0	33 14 50	50 71 0	17 14 0	0 0 50	852 849 845	29 49 18 5	19 16 13 9	54 51 51 39	19 22 23 29	9 11 13 23	849 848 846 842			
Which of the following best describes how you rate yourself as a student in science?																									
A. very good B. good C. fair D. poor	31 50 19 0	2 2 0	40 25 0	2 5 2	40 63 67	1 1 0	20 13 0	0 0 1	0 0 33	853 852 839	36 43 21 0	40 33 0	40 50 67	20 17 0	0 0 33	853 850 839	23 54 20 3	28 15 5 2	51 55 45 35	13 21 32 34	8 9 18 29	853 848 842 838			
How difficult was the science part of this test?  A. harder than my regular schoolwork  B. about the same as my regular schoolwork  C. easier than my regular schoolwork	29 71 0	3	60 8	0 10	0 83	1 1	20 8	1 0	20 0	851 850	33 67 0	60 10	0 80	20 10	20 0	851 849	27 59 13	15 15 21	49 53 51	22 22 18	14 10 10	846 848 850			
How hard did you try on the science part of this test?  A. I tried harder on this test than I do on my regular schoolwork.  B. I tried about the same as I do on my regular schoolwork.  C. I did not try as hard on this test as I do on my regular schoolwork.	35 65 0	2 2	33 18	2 8	33 73	1 1	17 9	1 0	17 0	852 850	33 67 0	40 20	20 70	20 10	20 0	851 849	40 55 5	15 17 12	51 53 41	22 21 25	12 10 22	847 848 843			
Which courses do you plan to take before you graduate from high school?																									
A. earth and space science and/or biology B. the course(s) described in A, plus chemistry C. the course(s) described in B, plus physics D. a life science and physical science class	31 19 13 38	1 0 0 3	20 0 0 50	2 2 2 3	40 67 100 50	1 1 0 0	20 33 0 0	1 0 0 0	20 0 0 0	847 847 849 855	29 14 14 43	25 0 0 50	25 50 100 50	25 50 0 0	25 0 0 0	845 841 849 855	25 24 22 29	11 18 30 8	53 53 47 52	23 20 14 27	13 10 8 14	846 849 853 844			
How do you feel about the following statement? "My knowledge of science and technology will be useful to me as an adult."																									
A. strongly agree B. agree C. disagree D. strongly disagree	35 53 12 0	3 0 1	50 0 50	2 7 1	33 78 50	1 1 0	17 11 0	0 1 0	0 11 0	854 848 852	40 47 13 0	50 0 50	33 71 50	17 14 0	0 14 0	854 846 852	27 54 15 4	23 15 10 7	51 53 50 39	17 21 26 30	9 11 14 24	851 847 845 841			
How well does the following statement reflect your future goals? "I am interested in a career related to science, technology, engineering, or mathematics."																									
A. strongly agree B. agree C. disagree D. strongly disagree	12 41 47 0	1 1 2	50 14 25	0 5 5	0 71 63	1 1 0	50 14 0	0 0 1	0 0 13	851 850 851	13 47 40 0	50 14 33	0 71 50	50 14 0	0 0 17	851 850 849	25 37 26 12	24 15 12 8	52 50 53 48	15 22 23 28	8 12 12 15	851 847 846 844			
Optional school/SAU question																									
A. B. C.	0 0 0 0										0 0 0														

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